CENTRAL MACHINERY®

6-1/2 HP PLATE COMPACTOR

Model 91762

SET UP, OPERATING, AND SERVICING INSTRUCTIONS

⚠ DANGER

Using an engine indoors CAN KILL YOU IN MINUTES.

Engine exhaust contains carbon monoxide. This is a poison you cannot see or smell.

NEVER use inside a home or garage, EVEN IF doors and windows are open.

Only use OUTSIDE and far away from windows, doors, and vents.

Distributed exclusively by Harbor Freight Tools®.

3491 Mission Oaks Blvd., Camarillo, CA 93012

Visit our website at: http://www.harborfreight.com

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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For technical questions or replacement parts, please call 1-800-444-3353.

PRODUCT SPECIFICATIONS

Operating Speed	0-82 Feet (0-25 Meters) Per Minute
Maximum Shock Force	3,000 Pounds
Vibration Frequency	5,500 Vibrations Per Minute
Maximum Performance	350 m^2 /hr
Engine Type	6.5 HP Briggs & Stratton 4 Stroke Unleaded Gasoline Powered Engine Approval: EPA - Phase 2
Plate Size	16-1/2" x 22"
Overall Dimensions	34-1/2" L x 15-1/4" W x 35-3/8" H
Weight	189 Pounds

UNPACKING

When unpacking, check to make sure all the parts shown on the **Parts List on page 14** are included. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

SAVE THIS MANUAL

You will need this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures, parts list and assembly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep this manual and invoice in a safe and dry place for future reference.

GENERAL SAFETY PRECAUTIONS

⚠ WARNING!

READ AND UNDERSTAND ALL INSTRUCTIONS
Failure to follow all instructions listed in the following pages may result in electric shock, fire, and/or serious injury.
SAVE THESE INSTRUCTIONS

WORK AREA

1. **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.

2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite flammables.

3. **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control. Protect others in the work area from debris such as chips and sparks. Provide barriers or shields as needed.

PERSONAL SAFETY

1. **Stay alert. Watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.

2. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.

3. **Avoid accidental starting. Be sure the Gasoline Engine Ignition Switch is off before transporting the Vibrator Plate or performing any maintenance or service on the unit.** Transporting or performing maintenance or service on a power tool with its Engine Ignition Switch on invites accidents.

4. **Remove adjusting keys or wrenches before turning on the tool.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

5. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.

6. **Use safety equipment. Always wear ANSI approved safety goggles underneath a full face shield, a dust mask or respirator, hearing protection and heavy duty work boots.**

TOOL USE AND CARE

1. **Do not force the tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.

2. **Do not use the power tool if the Engine Ignition Switch does not turn it on or off.** Any gasoline powered tool that cannot be controlled with the Engine Ignition Switch is dangerous and must be replaced.

3. **Disconnect the Engine Spark Plug Wire from the Spark Plug before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.

4. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.

5. **Maintain tools with care.** Do not use a damaged tool. Tag damaged tools "Do not use" until repaired.

6. **Check for misalignment or binding of moving parts, breakage of parts, cracking or breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.

7. **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool may become hazardous when used on another tool.

SERVICE

1. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.

2. **When servicing a tool, use only identical replacement parts. Follow instructions in the *"Inspection, Maintenance, And Cleaning"* section of this manual.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of injury.

SPECIFIC SAFETY PRECAUTIONS

1. **Maintain labels and nameplates on the Vibrator Plate.** These carry important information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

2. **⚠ CAUTION! To avoid injury, keep hands, fingers, and feet away from the Compactor Base (27).** Grip the Upper Handle (46) of the Vibrator Plate *firmly* with both hands. If both hands are holding the Handle and your feet are clear of the Compactor Base, your hands, fingers, and feet cannot be injured by the Compactor Base. Never place tools under the Compact Vibrator Plate.

3. **Always use recommended replacement parts.** The recommended replacement parts are available from Harbor Freight Tools. Servicing should be done by a qualified service technician.

4. **Use safety equipment. Always wear ANSI approved safety goggles underneath a full face shield, a dust mask or respirator, and hearing protection.**

5. **Industrial applications must follow OSHA requirements.**

6. **Keep all spectators at least six feet from the Compact Vibrator Plate during operation.**

7. **It is recommended that the Vibrator Plate be used only in well ventilated outdoor areas.** Carbon monoxide fumes are a colorless, odorless gas that, if inhaled, can cause serious injury or death. If the Vibrator Plate is used in enclosed spaces, the Engine exhaust fumes must be piped out of the enclosed space using leak-free, heat-resistant piping. The pipes should not use any flammable materials, nor should they be installed near the same. Engine exhaust fumes must be within legal limits.

8. **Only use a suitable means of transport and lifting devices with sufficient weight bearing capacity when transporting the Compact Vibrator Plate.**

9. **Only use sturdy loading ramps with sufficient weight bearing capacity.** Secure the Vibrator Plate on transport vehicles to prevent the tool from rolling, slipping, and tilting.

10. **Never leave the Compact Vibrator Plate unattended while it is running.**

11. **Always keep a safe distance away from the edges and banks of ditches and avoid any actions that may cause the Vibrator Plate from toppling over.**

12. **Always ascend slopes carefully in a direct path.**

13. **Reverse up steep slopes to prevent the Vibrator Plate from toppling over onto the operator.**

14. **When performing compacting work in the vicinity of buildings or above pipelines, make sure to check the affect of the vibrations on the buildings and pipelines.** If necessary, immediately stop the compacting work.

15. **Always park the Vibrator Plate on a firm and level surface.**

FIRE AND EXPLOSION PRECAUTIONS

1. **Gasoline fuel and fumes are flammable, and potentially explosive. Use**

proper fuel storage and handling procedures. Always have multiple ABC class fire extinguishers nearby.

2. **Keep the Vibrator Plate and surrounding area clean at all times.**

3. **When spills of fuel or oil occur, they must be cleaned up immediately.** Dispose of fluids and cleaning materials as per any local, state, or federal codes and regulations. Store oil rags in a covered metal container.

4. **Never store fuel or other flammable materials near the Vibrator Plate.**

5. **Do not smoke, or allow sparks, flames or other sources of ignition around the Engine and Fuel Tank. Fuel vapors are explosive.**

6. **Keep grounded conductive objects, such as tools, away from exposed, live electrical parts and connections to avoid sparking or arcing.** These events could ignite fumes or vapors.

7. **Do not refill the Fuel Tank while the Engine is running or while the Engine is still hot. Do not operate the Vibrator Plate with known leaks in the fuel system.**

8. **Excessive buildup of unburned fuel gases in the exhaust system can create a potentially explosive condition. This buildup can occur after repeated failed start attempts, valve testing, or hot engine shutdown.** If this occurs, open exhaust system drain plugs, if equipped, and allow the gases to dissipate before attempting to restart the Engine.

9. **Always check the Engine oil level prior to starting the Engine.** Make sure to read and understand the *Engine Owner's Manual* for the proper oil level and oil change schedules.

10. **Use *only* engine manufacturer recommended fuel and oil.** Refer to the *Engine Owner's Manual* for further instructions.

MECHANICAL PRECAUTIONS

1. **<u>ALWAYS</u> make sure the Engine's Power Switch is in its "OFF" position. Disconnect the spark plug wire, and allow the Engine to completely cool before carrying out maintenance.**

2. **Check for damaged parts.** Before using the Vibrator Plate, any part that appears damaged should be carefully checked to determine that it will operate

properly and perform its intended function. Check for alignment and binding of moving parts, any broken parts or mounting fixtures, and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician.

3. **Make sure to read and understand all instructions and safety precautions as outlined in the Engine manufacturer's Owner's Manual.** Do not attempt to operate the Vibrator Plate until you fully understand how to properly operate and maintain the Engine and how to avoid accidental injuries and/or property damage.

4. **Do not alter or adjust any part of the Vibrator Plate that is assembled and supplied by the manufacturer.**

5. **Always follow and complete scheduled Engine and Vibrator Plate maintenance.**

BURN AND CHEMICAL PRECAUTIONS

1. **Avoid contact with hot fuel, oil, exhaust fumes, and hot solid surfaces.**

2. **Avoid body contact with fuels, oils, and lubricants used in the Engine. If swallowed, seek medical treatment immediately.** Do not induce vomiting if fuel is swallowed. For skin contact, immediately wash with soap and water. For eye contact, immediately flush eyes with clean water.

NOISE PRECAUTIONS

Prolonged exposure to noise levels above 85 dBA is hazardous to hearing. Always wear ANSI approved ear protection when operating or working around the Vibrator Plate when it is running.

HEART PACEMAKER WARNING

⚠ WARNING! People with pacemakers should consult their physician(s) before using this product. Electromagnetic fields in close proximity to a heart pacemaker could cause interference to or failure of the pacemaker.

CALIFORNIA PROPOSITION 65 WARNINGS

1. **WARNING!** Operation of this Vibrator Plate and/or Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.
(California Health & Safety Code § 25249.5, *et seq.*)

2. **WARNING!** Some dust created by compacting materials, power sanding, sawing, grinding, drilling, and other construction activities, contain chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are: lead from lead-based paints, crystalline silica from bricks and cement or other masonry products, arsenic and chromium from chemically treated lumber. Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.
(California Health & Safety Code § 25249.5, *et seq.*)

OWNER/OPERATOR WARNING

WARNING! The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

VIBRATION HAZARD

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. Wear suitable gloves to reduce the vibration effects on the user.
4. Use tools with the lowest vibration when there is a choice between different processes.
5. Include vibration-free periods each day of work.
6. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

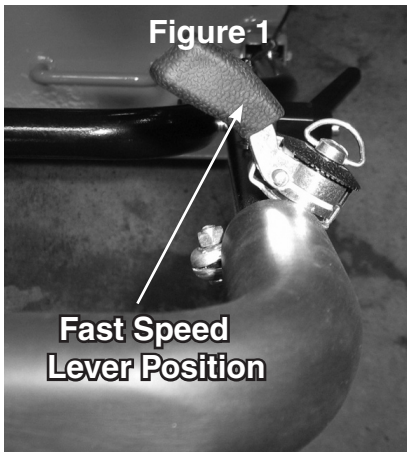
ASSEMBLY INSTRUCTIONS

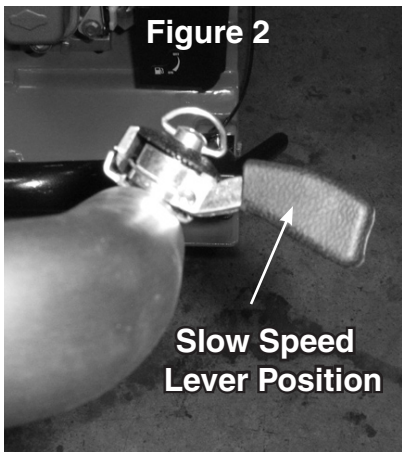
NOTE: For additional references to the parts listed in the following pages, refer to the **Assembly Diagram on page 15**.

Handle Setup:

1. Loosen the Knob Handle (53) on each side of the Upper Handle (46).
2. Swing the Upper Handle until it points straight out from the Lower Handle (14). Tighten both Knob Handles (53) securely.
3. Make sure that the Upper Handle (46) is **FIRMLY** attached to the unit BEFORE use. See the parts list and assembly diagram on pages 14 and 15.

CONTROLS





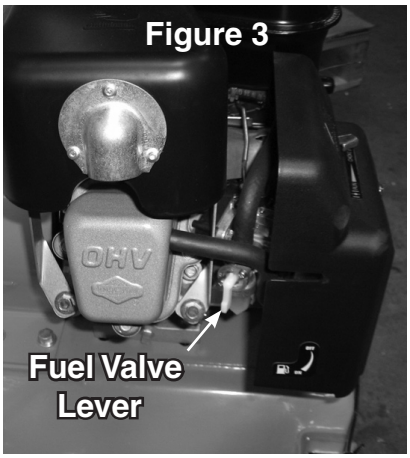


Figure 4

OPERATING INSTRUCTIONS

Pre-Start Checks:

1. Check to make sure the Engine's Power Switch is in its **"OFF"** position. See Figure 4 above.

2. **IMPORTANT! Prior to first using the Vibrator Plate, the Engine MUST be filled with a high quality SAE 10W-30 grade engine oil.** To do so, unscrew and remove the Engine's Oil Fill Plug located at the bottom of the Engine Crankcase. Fill the Engine's Crankcase until the oil level is level with the Oil Fill Hole. Then, screw the Oil Fill Plug back into the Oil Fill Hole. **(For additional information, refer to the engine manufacturer's manual.)**

3. Before the first use, remove the Engine's Fuel Tank Cap and fill the Fuel Tank with *unleaded* gasoline. Then, replace the Fuel Tank Cap. Thereafter, check the Fuel Tank for the amount of unleaded gasoline. Refill the Fuel Tank with unleaded gasoline only.

To Start And Operate The Vibrator Plate:

1. Turn the Fuel Valve on the Engine to "**ON**". See Figure 3, page 10.
2. Turn the Choke Lever on the Engine to its **"CHOKE"** position. See Figure 4.
3. Set the Speed Control Lever (19) to its **"FAST"** position. See Figure 1, page 10.
4. Turn the Engine's Power Switch to its **"ON"** position. See Figure 4, page 10.
5. Hold the Start Handle of the Engine loosely and pull it slowly several times to allow the gasoline to flow into the Engine's carburetor. Then hold the Start Handle firmly and pull the rope hard and fast. Pull the rope all the way out, using two hands if necessary. If necessary, pull the rope several times until the Engine starts. See Figure 4, page 10.
6. Allow the Engine to run for several seconds. Then, move the Choke Lever very slowly to its **"RUN"** position.

   NOTE: Moving the Choke Lever too fast could kill the engine. See engine manual.
7. Grip the Upper Handle (46) *firmly* with both hands.
8. Depending on the desired speed at which the Vibrator Plate will vibrate, adjust the Speed Control Lever (19) between its **"LOW"** to **"HIGH"** position.
9. Slowly push or pull the Vibrator Plate while guiding the tool in the desired direction.
10. Always keep a safe distance away from the edges and banks of ditches and avoid any actions that may cause the Vibrator Plate to topple over.
11. Always ascend slopes carefully in a direct path. Reverse up slopes to prevent the Vibrator Plate from toppling over onto the operator.

To Stop The Vibrator Plate:

1. Turn the Speed Control Lever (19) to its **"LOW"** position. See Figure 1, page 10.
2. Turn the Engine's Power Switch to its **"OFF"** position.
3. Turn the Fuel Valve on the Engine to "**OFF**".

NOTE: Always park the Vibrator Plate on a firm and level surface.

INSPECTION, MAINTENANCE, AND CLEANING

1. **⚠ CAUTION! Always make sure the Engine's Power Switch is in its "OFF" position. Disconnect the spark plug wire from the engine. Allow sufficient time for the Engine to completely cool before performing any inspection, maintenance, or cleaning on the Vibrator Plate and/or Engine.**

2. **Before each use,** inspect the general condition of the Vibrator Plate. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation. If an Engine problem occurs, always have the Engine immediately checked out by a *qualified service technician* before further use.
   Do not use damaged equipment.

3. **Before each use,** check to make sure the Engine's oil level is adequate. If necessary, fill the Engine's Crankcase until the oil level is even with the Oil Fill Hole.

4. **Before each use,** remove all debris from the Vibrator Plate using a soft brush, vacuum, or a compressed air gun. Use a premium quality, lightweight machine oil to lubricate all moving parts.

5. Read the engine manual for instructions on when to replace the motor oil and how to properly maintain the engine. **Make sure to contact a local environmental or recycling center for proper disposal of old oil.**

6. **Every 300 hours of use,** have a *qualified, certified technician* perform thorough maintenance on the Vibrator Plate and its Engine.

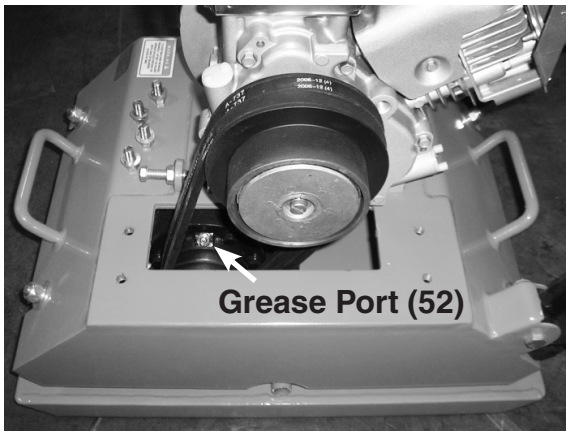
7. The Knob Handles (53) can be loosened and the Upper Handle (46) folded down to aid in storage.

Lubricating the Grease Bearing

1. After every 120 hours of use, the Grease Bearing (33) must be greased through the Grease Port (52) .

2. First, remove the Pulley Cover (11) by removing the four Bolts (13). See the parts list and assembly diagram on pages 14 and 15.

3. Using a grease gun with a Zerk grease adapter, insert high temperature bearing grease (NLGI Grade 2) into the Grease Port (52). See the photo to the right.



Belt Tension Adjustment Instructions:

1. Turn off engine.
2. Loosen, but do not remove, the 4 nuts (40) that hold the engine (36) to the connecting plates (39).
3. Slide the engine (36), away from the Driven Pulley (29), until the belts are properly tensioned. Tighten the 4 nuts (40) that hold the engine (36) to the connecting plates (39).

Belt Replacement Instructions:

1. Turn off engine.
2. Loosen, but do not remove, the 4 nuts (40) that hold the engine (36) to the connecting plates (39).
3. Using nut (38) and bolt (37), slide the engine (36) towards to the driven pulley (29) until belts (9) can be removed.
4. Remove the old belts, then install new ones.
5. Using nut (38) and bolt (37), slide engine (36) away from driven pulley (29) until belt is properly tensioned.
6. Retighten the 4 nuts (40) that hold the engine (36) to the connecting plates (39).

Draining The Gas Tank:

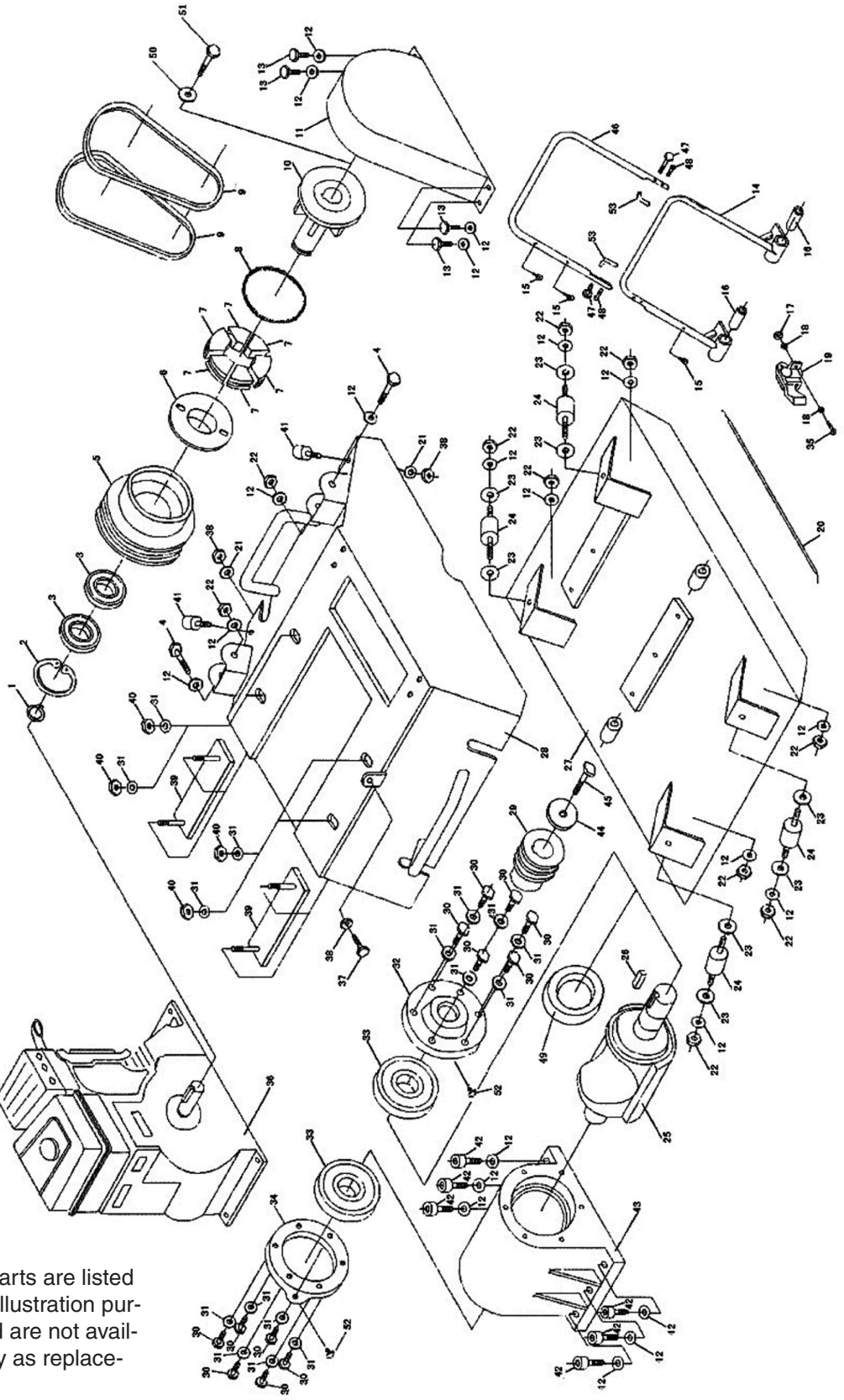
1. Refer to the engine manual for instructions on how to safely remove gas from the fuel tank.
2. We recommend that you add fuel stabilizer to the gas if you are planning to store the Plate Compactor for a long period of time.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Part	Description	Qty.	Part	Description	Qty.
1	Shaft Circlip	1	28	Base Cover	1
2	Hole Circlip	2	29	Driven Pulley	1
3	Ball Bearing (6006)	2	30	Bolt (M8x25)	12
4	Bolt (M12x60)	2	31	Washer (Φ8)	16
5	Drive Pulley	1	32	Bearing Cover (2)	1
6	Cover	1	33	Bearing (6308)	2
7	Friction Block	6	34	Bearing Cover(1)	1
8	Spring	1	35	Screw	1
9	Cone Belt	2	36	Gas Engine	1
10	Flap Wheel	1	37	Bolt(M10x60)	1
11	Pulley Cover	1	38	Nut (M10)	1
12	Washer (Φ12)	22	39	Connecting Plate	2
13	Bolt (M10x25)	4	40	Nut (M8)	4
14	Lower Handle	1	41	Single Threaded Rubber Shaft	2
15	Screw	3	42	Inner Hex Screw	6
16	Rubber Sleeve	2	43	Bearing Housing	1
17	Nut (M5)	1	44	Stopper Plate	1
18	Washer	2	45	Bolt (M12x30)	1
19	Speed Control Lever	1	46	Handle (upper)	1
20	Flexible Shaft	1	47	Bolt (M10x60)	2
21	Washer (Φ8)	2	48	Rivet Φ8	2
22	Nut (M12)	10	49	Oil Seal	1
23	Spacer Plate	8	50	Flat Washer	1
24	Double Threaded Rubber Shaft	4	51	Bolt	1
25	Eccentric Shaft	1	52	Grease Port	2
26	Flat Pin	1	53	Knob Handle	2
27	Compactor Base	1			

ASSEMBLY DIAGRAM



NOTE: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

REV 04g; 08d

LIMITED 1 YEAR / 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that for a period of ninety days from date of purchase that the engine/motor, the belts (if so equipped), and the blades (if so equipped) are free of defects in materials and workmanship. Harbor Freight Tools also warrants to the original purchaser, for a period of one year from date of purchase, that all other parts and components of the product are free from defects in materials and workmanship (90 days if used by a professional contractor or if used as rental equipment). This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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